

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
24743-2301SERIAL NO.
09/067,337LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
KOSTERFILING DATE
April 27, 1998GROUP
1623

U.S. PATENT DOCUMENTS

OWNER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
<i>SPW</i>	A	5	1	9	8	5	4	0	03/30/93	Koster	536	25.3	06/19/89

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	
<i>SPW</i>	B	0	6	4	2	7	9	8	03/15/95	EP				
	C	8	4	0	1	7	7	9	05/10/84	WO				X*
	D	9	6	0	3	1	4	8	02/08/96	WO				X*
	E	9	7	1	4	7	0	6	04/24/97	WO				
<i>SPW</i>	F	9	9	1	0	3	6	2	03/04/99	WO				

*Derwent English Language Abstract or English Equivalent Provided.

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

No Date	G	Database WPI, Derwent Publications #199848, citing Japanese Patent No. 10251292.
No Date	H	Database WPI, Derwent Publications #199612, citing Japanese Patent No. WO 9603148.
<i>SPW</i>	I	International Search Report, PCT/US 99/08939, 04/26/99.
	J	Konig, B., et al., Tetrahedron Letters, 39(16):2307-2310 (1998).
	K	Ritzen, A., et al., Tetrahedron: Asymmetry, 9(19):3491-3496 (1998).
	L	Shchepinov et al., Nucleic Acid Research, 25(22):4447-4454 (1997).
	M	Shinozuka, K., et al., Journal of The Chemical Society, Chemical Communications, 11:1377-1378 (1994).
<i>SPW</i>	N	Tuchscherer, G., et al., Journal of Biotechnology, 41(2):197-210 (1995).

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
<i>SPW</i>	AA	4	7	4	9	7	4	2	6/7/88	Elmore	525	54.11	7/18/86
	AB	4	7	9	4	1	5	0	12/27/88	Steel	525	54.11	3/11/87
	AC	5	0	3	7	8	8	2	8/6/91	Steel	525	54.11	12/23/88
	AD	5	0	7	7	2	1	0	12/31/91	Eigler <i>et al.</i>	435	176	1/13/89
	AE	5	1	9	8	5	4	0	3/30/93	Koster	536	25.3	6/25/84
	AF	5	2	2	1	7	3	6	6/22/93	Coolidge <i>et al.</i>	536	25.31	12/21/89
	AG	5	2	4	6	8	4	0	9/21/93	Nilsson	435	101	11/16/90
	AH	5	2	6	2	3	3	1	11/16/93	Salisbury <i>et al.</i>	436	86	6/26/91
	AI	5	2	8	8	6	3	7	2/22/94	Roth	435	288	10/2/92
	AJ	5	3	7	4	6	5	5	12/20/94	Kashem <i>et al.</i>	514	540	7/14/92
	AK	5	4	9	2	8	2	1	2/20/96	Callstrom <i>et al.</i>	435	188	11/13/91
	AL	5	5	3	2	1	4	7	7/2/96	Nilsson	435	100	4/6/94
	AM	5	5	3	9	0	8	3	7/23/96	Cook <i>et al.</i>	530	333	2/23/94
	AN	5	5	4	7	8	3	5	8/20/96	Koster	435	6	1/6/94
	AO	5	5	5	2	4	7	1	9/3/96	Woo <i>et al.</i>	524	494	8/17/94
	AP	5	5	5	2	5	3	5	9/3/96	McLean <i>et al.</i>	536	23.1	11/7/94
	AQ	5	5	7	1	9	0	2	11/5/96	Ravikumar <i>et al.</i>	536	22.1	5/26/94
	AR	5	5	8	3	0	4	2	12/10/96	Roth	435	288.1	3/22/94
	AS	5	6	1	0	2	8	9	3/11/97	Cook <i>et al.</i>	536	25.34	4/7/94
	AT	5	6	1	6	6	9	8	4/1/97	Krepinsky <i>et al.</i>	536	18.6	1/10/94
	AU	5	6	1	6	7	0	0	4/1/97	Reddy <i>et al.</i>	536	25.3	11/18/93
	AV	5	6	3	5	4	8	8	6/3/97	Cook <i>et al.</i>	514	44	6/6/95
	AW	5	6	3	5	5	9	8	6/3/97	Lebl <i>et al.</i>	530	334	6/21/94
	AX	5	6	3	7	7	1	9	6/10/97	Carpino <i>et al.</i>	546	344	6/6/95
	AY	5	6	3	9	6	3	3	6/17/97	Callstrom <i>et al.</i>	435	68.1	6/6/95

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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	RECEIVED TECH CENTER 1600/2800 98 OCT 20 AM 1:05 FILING DATE
<i>SNW</i>	AZ	5	6	4	1	8	6	2	6/24/97	Rutter <i>et al.</i>	530	334	2/9/98
	BA	5	6	4	4	0	2	9	7/1/97	Carpino	530	333	6/6/95
	BB	5	6	4	8	4	6	2	7/15/97	Funakoshi <i>et al.</i>	530	344	1/27/95
	BC	5	6	4	8	4	8	0	7/15/97	Letsinger <i>et al.</i>	536	25.34	6/6/95
	BD	5	6	5	2	3	5	8	7/29/97	Pfleiderer <i>et al.</i>	536	25.3	11/3/94
	BE	5	6	6	8	2	6	6	9/16/97	Ruth	536	25.3	5/12/95
	BF	5	6	7	9	7	7	3	10/21/97	Holmes	530	334	1/17/95
	BG	5	7	0	0	9	2	2	12/23/97	Cook	536	23.1	11/24/93
	BH	5	7	0	5	3	3	3	1/6/98	Shah <i>et al.</i>	435	6	8/5/94
	BI	5	7	0	5	6	2	1	1/6/98	Ravikumar	536	23.1	11/17/95
	BJ	5	7	1	4	3	3	1	2/3/98	Buchardt <i>et al.</i>	435	6	7/24/96
	BK	5	7	1	9	2	6	2	2/17/98	Buchardt <i>et al.</i>	530	300	7/24/96
	BL	5	7	2	6	2	4	3	3/10/98	Fields	525	54.11	7/3/96
	BM	5	7	3	6	3	3	6	4/7/98	Buchardt <i>et al.</i>	435	6	5/1/97
	BN	5	7	3	6	6	2	5	4/7/98	Callstrom <i>et al.</i>	530	402	6/6/95
<i>SNW</i>	BO	5	7	3	6	6	2	6	4/7/98	Mullah <i>et al.</i>	536	25.3	1/29/96

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<i>SNW</i>	BP	8	9	1	2	6	2	4	12/28/89	PCT			
<i>SNW</i>	BQ	9	2	1	0	0	9	2	6/25/92	PCT			
<i>SNW</i>	BR	9	8	2	0	1	6	6	5/14/98	PCT			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BS	Allin, S.M. and Shuttleworth, S.J., "The Preparation and First Application of a Polymer-Supported "Evans" Oxazolidinone", <i>Tetrahedron Lett.</i> , 37(44):8023-8026 (1996)
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SPW	BT	Backes, B.J. <i>et al.</i> , "Activation Method to Prepare a Highly Reactive Acylsulfonamide "Safety Catch" Linker for Solid-Phase Synthesis ¹ ", <u>J. Am. Chem. Soc.</u> , 118:3055-3058 (1996)
	BU	Batista-Viera, F. <i>et al.</i> , "A New Method for Reversible Immobilization of Thiol Biomolecules Based on Solid-Phase Bound Thiolsulfonate Groups", <u>Appl. Biochem. Biotech.</u> , 31:175-195 (1991)
	BV	Beaucage, S.L. and Caruthers, M.H., "Deoxynucleoside Phosphoramidites - A New Class of Key Intermediates for Deoxypolynucleotide Synthesis", <u>Tetrahedron Lett.</u> , 22(20):1859-1862 (1981)
	BW	Beaucage, S.L. and Iyer, R.P., "Advances on the Synthesis of Oligonucleotides by the Phosphoramidite Approach", <u>Tetrahedron</u> , 48(12):2223-2311 (1992)
	BX	Beaucage, S.L. and Iyer, R.P., "The Functionalization of Oligonucleotides via Phosphoramidite Derivatives", <u>Tetrahedron</u> , 49(10):1925-1963 (1993)
	BY	Beaucage, S.L. and Iyer, R.P., "The Synthesis of Modified Oligonucleotides by the Phosphoramidite Approach and Their Applications", <u>Tetrahedron</u> , 49(28):6123-6194 (1993)
	BZ	Beck, S. and Koster, H., "Applications of Dioxetane Chemiluminescent Probes to Molecular Biology", <u>Anal. Chem.</u> , 62:2258-2270 (1990)
	CA	Bhargava, K.K. <i>et al.</i> , "Synthesis of a Cyclic Analogue of Oxidized Glutathione by an Intersite Reaction in a Swollen Polymer Network", <u>J. Am. Chem. Soc.</u> , 105:3247-3251 (1983)
	CB	Biernat, J. <i>et al.</i> , "Purification Orientated Synthesis of Oligodeoxynucleotides in Solution", <u>Tetrahedron Lett.</u> , 24(8):751-754 (1983)
	CC	Bray, A.M. <i>et al.</i> , "Direct Cleavage of Peptides from a Solid Support into Aqueous Buffer. Application in Simultaneous Multiple Peptide Synthesis", <u>J. Org. Chem.</u> , 56:6659-6666 (1991)
	CD	Brown, B.B. <i>et al.</i> , "A single-bead decode strategy using electrospray ionization mass spectrometry and a new photolabile linker: 3-Amino-3-(2-nitrophenyl)propionic acid", <u>Mol. Divers.</u> , 1:4-12 (1995)
	CE	Brown, E.L. <i>et al.</i> , "Chemical Synthesis and Cloning of a Tyrosine tRNA Gene", <u>Meth. Enzymol.</u> , 68:109-151 (1979)
SPW	CF	Brown, S.C. <i>et al.</i> , "NMR Solution Structure of a Peptide Nucleic Acid Complexed with RNA", <u>Science</u> , 265:777-780 (1994)

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CG	Burgess, K. <i>et al.</i> , "An Approach to Photolabile, Fluorescent Protecting Groups", <u>Chem.</u> , 62:5165-5168 (1997)
CH	Cardno, M. and Bradley, M., "A Simple Multiple Release System for Combinatorial Library and Peptide Analysis", <u>Tetrahedron Lett.</u> , 37(1):135-138 (1996)
CI	Chan, W.C. and Mellor, S.L., "Reductive Alkylation of 9-Amino-xanthen-3-yloxymethylpoly(styrene): a Novel Procedure for the Synthesis of Peptidyl <i>N</i> -Alkyl Amides by Fmoc/Bu ^t Chemistry", <u>J. Chem. Soc. Chem. Commun.</u> , 1475-1476 (1995)
CJ	Cusack, N.J. <i>et al.</i> , "Block Synthesis of Oligonucleotides by the Phosphotriester Approach", <u>Tetrahedron Lett.</u> , 24:2209-2212 (1973)
CK	DeGrado, W.F. and Kaiser, E.T., "Polymer-Bound Oxime Esters as Supports for Solid-Phase Peptide Synthesis. Preparation of Protected Peptide Fragments", <u>J. Org. Chem.</u> , 45:1295-1300 (1980)
CL	Eckstein, F., ed., " <u>Oligonucleotides and Analogues : A Practical Approach</u> ", pp. 49-51; 58-59; 137-139; 255-259, IRL Press, Oxford, 1991
CM	Entwistle, I.D., "The Use of 2-Nitrophenylpropionic Acid as a Protecting Group for Amino and Hydroxyl Functions to be Recovered by Hydrogen Transfer Reduction", <u>Tetrahedron Lett.</u> , 6:555-558 (1979)
CN	Fattom, A. <i>et al.</i> , "Comparative Immunogenicity of Conjugates Composed of the <i>Staphylococcus Aureus</i> Type 8 Capsular Polysaccharide Bound to Carrier Proteins by Adipic Acid Dihydrazide or N-Succinimidyl-3-(2-Pyridyldithio)propionate", <u>Infection and Immun.</u> , 60(2):584-589 (1992)
CO	Frechet, J.M.J. and Nuyens, L.J., "Use of Polymers as Protecting Groups in Organic Synthesis. III. Selective Functionalization of Polyhydroxy Alcohols", <u>Can. J. Chem.</u> , 54:926-934 (1976)
CP	Froehler, B.C., "Deoxynucleoside H-Phosphonate Diester Intermediates in the Synthesis of Internucleotide Phosphate Analogues", <u>Tetrahedron Lett.</u> , 27(46):5575-5578 (1986)
CQ	Froehler, B.C. and Matteucci, M.D., "Nucleoside H-Phosphonates: Valuable Intermediates in the Synthesis of Deoxyoligonucleotides", <u>Tetrahedron Lett.</u> , 27(4):469-472 (1986)
CR	Froehler, B.C. and Matteucci, M.D., "Substituted 5-Phenyltetrazoles: Improved Activators of Deoxynucleoside Phosphoramidites in Deoxyoligonucleotide Synthesis", <u>Tetrahedron Lett.</u> , 24(31):3171-3174 (1983)
CS	Gait, M.J., ed., " <u>Oligonucleotide Synthesis : A Practical Approach</u> ", IRL Practical Approach Series, IRL Press, Oxford, 1984

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Sew	CT	Garegg, P.J. <i>et al.</i> , "Nucleoside H-Phosphonates. III. Chemical Synthesis of Oligodeoxyribonucleotides by the Hydrogenphosphonate Approach", <u>Tetrahedron Lett.</u> , 27(34):4051-4054 (1986)
	CU	Gayo, L.M. and Suto, M.J., "Traceless Linker: Oxidative Activation and Displacement of a Sulfur-Based Linker", <u>Tetrahedron Lett.</u> , 38(2):211-214 (1997)
	CV	Goldmacher, V.S. <i>et al.</i> , "Photoactivation of Toxin Conjugates", <u>Bioconj. Chem.</u> , 3:104-107 (1992)
	CW	Greene, T.W. " <u>Protective Groups in Organic Synthesis</u> ", John Wiley and Sons, Inc., New York, 1981
	CX	Han, Y. <i>et al.</i> , "Silicon Directed <i>ipso</i> -Substitution of Polymer Bound Arylsilanes: Preparation of Biaryls <i>via</i> the Suzuki Cross-Coupling Reaction", <u>Tetrahedron Lett.</u> , 37(16):2703-2706 (1996)
	CY	Hazum, E. <i>et al.</i> , "A Photocleavable Protecting Group for the Thiol Function of Cysteine", <u>Pept., Proc. Eur. Pept. Symp.</u> , 16th, Brunfeldt, K. (ed.), pp 105-110, 1981
	CZ	Hermanson, G.T. " <u>Bioconjugate Techniques</u> ", Academic Press, Inc., 1996
	DA	"IUPAC-IUB Commission on Biochemical Nomenclature Symbols for Amino-Acid Derivatives and Peptides Recommendations (1971)", <u>Biochem.</u> , 11(9):1726-1732 (1972)
	DB	Jones, R.A. <i>et al.</i> , "Use of the Lipophilic <i>tert</i> -Butyldiphenylsilyl Protecting Group in Synthesis and Rapid Separation of Polynucleotides", <u>Biochem.</u> , 17(7):1268-1277 (1978)
	DC	Jurinke, C. <i>et al.</i> , "Recovery of Nucleic Acids from Immobilized Biotin-Streptavidin Complexes using Ammonium Hydroxide and Applications in MALDI-TOF Mass Spectrometry", <u>Anal. Chem.</u> , 69:904-910 (1997)
	DD	Jurinke, C. <i>et al.</i> , "Analysis of Ligase Chain Reaction Products via Matrix-Assisted Laser Desorption / Ionization Time-of-Flight- Mass Spectrometry", <u>Anal. Biochem.</u> , 237:174-181 (1996)
	DE	Jurinke, C. <i>et al.</i> , "Detection of Hepatitis B Virus DNA in Serum Samples via Nested PCR and MALDI-TOF Spectrometry", <u>Genetic Anal: Biomol. Engg.</u> , 13:67-71 (1996)
	DF	Kaldor, S.W. <i>et al.</i> , "Use of Solid Supported Nucleophiles and Electrophiles for the Purification of Non-Peptide Small Molecule Libraries", <u>Tetrahedron Lett.</u> , 37(40):7193-7196 (1996)
	DG	Khorana, H.G., "Total Synthesis of a Gene", <u>Science</u> , 203:614-625 (1979)
Sew	DH	Koster, H. <i>et al.</i> , "Some Improvements in the Synthesis of DNA of Biological Interest", <u>Nucl. Acids Res.</u> , Symposium Ser. 7:39-59 (1980)

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DI	Koster, H. <i>et al.</i> , "N-Acyl Protecting Groups for Deoxynucleosides: A Quantitative and Comparative Study", <u>Tetrahedron</u> , 37:363-369 (1981)
DJ	Koster, H. <i>et al.</i> , "Polymer Support Oligonucleotide Synthesis - XV: Synthesis of Oligodeoxynucleotides on Controlled Pore Glass (CPG) using Phosphate and a new Phosphotriester Approach", <u>Tetrahedron</u> , 40(1):103-112 (1984)
DK	Krchnak, V. <i>et al.</i> , "Structurally Homogeneous and Heterogeneous Synthetic Combinatorial Libraries", <u>Mol. Divers.</u> , 1:149-164 (1995)
DL	Kumar, G. and Poonian, M.S., "Improvements in Oligodeoxyribonucleotide Synthesis: Methyl <i>N,N</i> -Dialkylphosphoramidite Dimer Units for Solid Support Phosphite Methodology", <u>J. Org. Chem.</u> , 49:4905-4912 (1984)
DM	Leznoff, C.C. and Wong, J.Y., "The Use of Polymer Supports in Organic Synthesis. The Synthesis of Monotryl Ethers of Symmetrical Diols", <u>Can. J. Chem.</u> , 50:2892-2893 (1972)
DN	Lloyd-Williams, P. <i>et al.</i> , "Convergent Solid-Phase Peptide Synthesis", <u>Tetrahedron</u> , 49(48):11065-11133 (1993)
DO	Lorsbach, B.A. <i>et al.</i> , "Reisert-Based "Traceless" Solid-Phase Synthesis: Isoquinoline, and Isoxazoline-Containing Heterocycles", <u>J. Org. Chem.</u> , 61:8716-8717 (1996)
DP	Maeji, N.J. <i>et al.</i> , " Multi-pin Peptide Synthesis Strategy for T Cell Determinant Analysis", <u>J. Immunol. Meth.</u> , 134:23-33 (1990)
DQ	Manoharan, M. <i>et al.</i> , "A 2'-O-thiol Tether in the Ribose Moiety of Nucleic Acids for Conjugation Chemistry", <u>Gene</u> , 149:147-156 (1994)
DR	McCray, J.A. and Trentham, D.R., "Properties and Uses of Photoreactive Caged Compounds", <u>Annu. Rev. Biophys. Biophys. Chem.</u> , 18:239-270 (1989)
DS	Meltzer, A.D. <i>et al.</i> , "Chain Dynamics in Poly(amido amine) Dendrimers. A Study of ¹³ C NMR Relaxation Parameters", <u>Macromol.</u> , 25:4541-4548 (1992)
DT	Milligan, J.F. <i>et al.</i> , "Current Concepts in Antisense Drug Design", <u>J. Med. Chem.</u> , 36(14):1923-1937 (1993)
DU	Morphy, J.R. <i>et al.</i> , "A Novel Linker Strategy for Solid-Phase Synthesis", <u>Tetrahedron Lett.</u> , 37(18):3209-3212 (1996)
DV	Mullis, K.B., "The Polymerase Chain Reaction (Nobel Lecture)", <u>Angew. Chem. Int. Ed. Engl.</u> , 33:1209-1213 (1994) (German Version: <u>Angew. Chem.</u> , 106:1271-1276 (1994))
DW	Mullis, K.B. and Faloona, F.A., "Specific Synthesis of DNA <i>in Vitro</i> via a Polymerase-Catalyzed Chain Reaction", <u>Meth. Enzymol.</u> , 155:335-350 (1987)

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DX	Newkome, G.R. and Lin, X., "Symmetrical, Four-Directional, Poly(ether-amide) Polymers", <u>Macromol.</u> , 24:1443-1444 (1991)
DY	Newkome, G.R. <i>et al.</i> , "Polytryptophane Terminated Dendritic Macromolecules", <u>Tetrahedron: Asymm.</u> , 2(10):957-960 (1991)
DZ	Newkome, G.R. <i>et al.</i> , "Building Blocks for Dendritic Macromolecules", <u>Aldrichim. Acta</u> , 25(2):31-38 (1992)
EA	Newlander, K.A. <i>et al.</i> , "Simple Silyl Linker for the Solid Phase Organic Synthesis of Aryl-Containing Molecules", <u>J. Org. Chem.</u> , 62:6726-6732 (1997)
EB	Nielsen, P.E. <i>et al.</i> , "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide", <u>Science</u> , 254:1497-1500 (1991)
EC	Norton, J.C. <i>et al.</i> , "Targeting Peptide Nucleic Acid-Protein Conjugates to Structural Features within Duplex DNA", <u>Bioorg. Med. Chem.</u> , 3(4):437-445 (1995)
ED	Olejnik, J. <i>et al.</i> , "Photocleavable biotin phosphoramidite for 5'-end-labelling, affinity purification and phosphorylation of synthetic oligonucleotides", <u>Nucl. Acids Res.</u> , 24(2):361-366 (1996)
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EF	Peffer, N.J. <i>et al.</i> , "Strand-invasion of Duplex DNA by Peptide Nucleic Acid Oligomers", <u>Proc. Natl. Acad. Sci. USA</u> , 90:10648-10652 (1993)
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EL	Senter, P.D. <i>et al.</i> , "Novel Photocleavable Protein Crosslinking Reagents and their use in the Preparation of Antibody-Toxin Conjugates", <u>Photochem. Photobiol.</u> , 42(3):231-235 (1985)
EM	Siebert, C.W. <i>et al.</i> , "Matrix-Assisted Laser Desorption / Ionization Time-of-Flight Mass Spectrometry for the Detection of Polymerase Chain Reaction Products Containing 7-Deazapurine Moieties", <u>Anal. Biochem.</u> , 243:55-65 (1996)
EN	Sinha, N.D. <i>et al.</i> , " β -Cyanoethyl N,N-Dialkylamino/N-Morpholinomono-chloro Phosphoramidites, New Phosphitylating Agents Facilitating Ease of Deprotection and Work-up of Synthesized Oligonucleotides", <u>Tetrahedron Lett.</u> , 24(52):5843-5846 (1983)
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EP	Sonveaux, E., "The Organic Chemistry Underlying DNA Synthesis", <u>Bioorg. Chem.</u> , 14:274-325 (1986)
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ER	Uhlmann, E. and Peyman, A., "'Antisense Oligonucleotides: A New Therapeutic Principle", <u>Chem. Rev.</u> , 90(4):543-584 (1990)
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EV	Wong, S.S. " <u>Chemistry of Protein Conjugation and Cross-Linking</u> ", CRC Press, Inc., 1991
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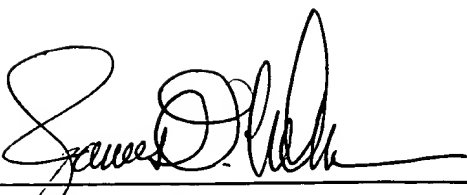
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	EY	Zuckermann, R. <i>et al.</i> , "Efficient Methods for Attachment of Thiol Specific Probes to the 3'-ends of Synthetic Oligodeoxyribonucleotides", <u>Nucl. Acids Res.</u> , 15(13):5305-5321 (1987)
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